

05882.0044.NPUS02 SEQUENCE LISTING

<110>	Kuma	rushi r, Sl uez,	hanka	ar							·					
<120>	Huma	nize	d Ch	icke	n An	tiboo	dies									
<130>	0588	2.004	44.N	PUSO:	2	•									,	
	/-															
<140>		88,62														
<141>	2003	-02-2	26													
<160>	103															
<170>	Pate	ntIn	ver	sion	3.2											
<210>	1															
<211>	378															
<212>	DNA							,								
<213>	Chic	ken														
1220	01120															
<400>	1															
tgccgt	gacg	ttgga	acga	gt c	tggg	ggcgg	g cct	tccag	gacg	cccg	gagg	gag (cgcto	cagco	:t	60
cgtctg	caag	gcct	ccggg	gt to	cacci	ttcag	g tag	gttad	cagc	atgo	etcte	199 t	tgcga	acagg	C	120
gcccgg	caag	gggct	tggaa	at a	cgtc	gctga	a aat	ttaco	caac	acto	gtag	gga (ccaga	agat	a	180
cggggc	ggcg	gtgaa	aggg	cc gt	tgcc	accat	cto	cgago	ggac	aacg	ggca	aga 🤅	gcaca	agtga	g	240
gctgca	gctg	aacaa	accto	ca g	ggct	gagga	a cad	ccgg	cacc	tact	acto	gcg (ccaga	agta	g	300
tgttta	ttct	tgtt	cttai	tg gi	ttggi	tgtgo	tgg	gtaad	atc	aacg	gcate	ggg (gccac	ggga	C	360
cgaagt	catc	gtct	cctc													378
<210><211><211><212><212><213>	2 126 PRT Chic	ken														
<400>	2															
Ala Va 1	l Thr	Leu	Asp 5	Glu	Ser	Gly	Gly	Gly 10	Leu	Gln	Thr	Pro	Gly 15	Gly		
Ala Le	u Ser	Leu 20	Val	Cys	Lys	Ala	Ser 25	Gly	Phe	Thr	Phe	Ser 30	Ser	Tyr		

Ser Met Leu Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Tyr Val 35 40 45

Ala	Glu 50	Ile	Thr	Asn	Thr	Gly 55	Arg	Thr	Arg	Arg	Tyr 60	Gly	Ala	Ala	Val	
Lys 65	Gly	Arg	Ala	Thr	Ile 70	Ser	Arg	Asp	Asn	Gly 75	Gln	Ser	Thr	Val	Arg 80	
Leu	Gln	Leu	Asn	Asn 85	Leu	Arg	Ala	Glu	Asp 90	Thr	Gly	Thr	Tyr	Tyr 95	Cys	
Ala	Arg	Ser	Ser 100	Val	Tyr	Ser	Cys	Ser 105	Tyr	Gly	Trp	Cys	Ala 110	Gly	Asn	
Ile	Asn	Ala 115	Trp	Gly	His	Gly	Thr 120	Glu	Val	Ile	Val	Ser 125	Ser			
<210 <211 <211 <211	1> 3 2> I	3 312 DNA chic)	ken													
<400 tgc		3 act o	cagco	egge	ct ca	igtgt	cago	c aaa	accto	ggga	ggaa	accgt	ca a	agato	cacctg	60
			-				_					_			gecee	120
tgt	cacto	gtg a	atcta	atgad	ca ac	cacca	aggag	g acc	cctcs	ggac	atco	cctt	cac g	gatto	ctccgg	180
ttc	caaat	ccc g	ggcto	ccaca	ag co	cacat	taac	c cat	cact	ggg	gtco	caago	ccg a	acgaç	gaggc	240
tgt	ctatt	ctc t	gtgg	ggac	ct gg	ggaca	agcag	g ccg	gtgtt	ggt	atat	ttgg	ggg (ccggg	gacaac	300
cct	gacco	gtc (et													312
<210 <210 <210 <210	l> 1 2> 1	1 104 PRT Chicl	cen													
<400	0 > 4	1														
Ala 1	Leu	Thr	Gln	Pro 5	Ala	Ser	Val	Ser	Ala 10	Asn	Leu	Gly	Gly	Thr 15	Val .	
Lys	Ile	Thr	Cys 20	Ser	Gly	Gly	Tyr	Ser 25	Gly	Tyr	Tyr	Gly	Trp 30	Tyr	Gln	
Gln	Lys	Ser 35	Pro	Gly	Ser	Ala	Pro 40	Val	Thr	Val	Ile	Tyr 45	Asp	Asn	Thr	

Arg Arg Pro Ser Asp Ile Pro Ser Arg Phe Ser Gly Ser Lys Ser Gly Ser Thr Ala Thr Leu Thr Ile Thr Gly Val Gln Ala Asp Asp Glu Ala 70 Val Tyr Phe Cys Gly Thr Trp Asp Ser Ser Arg Val Gly Ile Phe Gly 90 Ala Gly Thr Thr Leu Thr Val Leu 100 <210> 5 <211> 30 <212> PRT <213> Homo sapiens <400> 5 Glu Val Gln Leu Val Glu Ser Gly Gly Leu Val Gln Pro Gly Gly 10 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser 20 25 <210> 6 <211> 14 <212> PRT <213> Homo sapiens <400> 6 Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala <210> 7 <211> 32 <212> PRT <213> Homo sapiens <400> 7 Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln 5 10 Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg

25

```
<210> 8
<211> 9
<212> PRT
<213> Homo sapiens
<400> 8
Trp Gly Gln Gly Thr Leu Val Thr Val
               5
<210> 9
<211> 22
<212> PRT
<213> Homo sapiens
<400> 9
Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln
               5
Thr Val Arg Ile Thr Cys
<210>
      10
<211>
      15
      PRT
<212>
<213>
      Homo sapiens
<400> 10
Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr
               5
                                                       15
<210>
      11
<211>
      32
<212>
      PRT
<213>
      Homo sapiens
<400> 11
Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser
               5
                                                       15
Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys
<210> 12
<211> 11
<212> PRT
```

<213> Homo sapiens <400> 12 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly <210> 13 <211> 378 <212> DNA <213> Homo sapiens <400> 13 tgaggtgcag ttggtggagt ccggaggtgg actcgtgcag cctggaggaa gcctcaggct 60 cagetgegee geeteegggt teacetteag tagttacage atgetetggg tgegacagge 120 gcctggcaag ggactggaat acgtcgctga aattaccaac actggtagga ccagaagata 180 cggagctgcg gtgaagggcc gtgccaccat ctcgagggac aacgccaaga acacagtgta 240 cctgcagatg aacagcctca gggctgagga caccgccgtg tactactgcg ccagaagtag 300 tgtttattct tgttcttatg gttggtgtgc tggtaacatc aacgcatggg gccagggaac 360 cctggtcacc gtctcctc 378 <210> 14 <211> 126 <212> PRT <213> Homo sapiens <400> 14 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly 10 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr 20 25 30 Ser Met Leu Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Tyr Val 35 40 Ala Glu Ile Thr Asn Thr Gly Arg Thr Arg Arg Tyr Gly Ala Ala Val 50 55 60 Lys Gly Arg Ala Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr

Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys

85	90	95
Ala Arg Ser Ser Val Tyr 100	Ser Cys Ser Tyr Gly T	rp Cys Ala Gly Asn 110
Ile Asn Ala Trp Gly Gln 115	Gly Thr Leu Val Thr V	al Ser Ser 125
<210> 15 <211> 315 <212> DNA <213> Homo sapiens		
<400> 15 tagetetgag etgaeteage e	gaattaaat ataaataaaa c	tqqqacaqa ccqtcaqqat 60
		333 3 3 33
cacctgctcc ggaggttaca g		
tectgteact gtgatttatg a		
cggttccaaa tccggctcca c		
ggctgactat tactgtggga c	ctgggacag cagccgtgtt g	gtatatttg gaggtgggac 300
aaagctgacc gtcct		315
<210> 16 <211> 105 <212> PRT <213> Homo sapiens		
<400> 16		
Ser Ser Glu Leu Thr Gln 1 5	Pro Pro Ser Val Ser Val 10	al Ala Leu Gly Gln 15
Thr Val Arg Ile Thr Cys 20	Ser Gly Gly Tyr Ser G	ly Tyr Tyr Gly Trp 30
Tyr Gln Gln Lys Pro Gly 35	Gln Ala Pro Val Thr V	al Ile Tyr Asp Asn 45
Thr Arg Arg Pro Ser Asp	Ile Pro Ser Arg Phe Se 55	

Gly Ser Thr Ala Thr Leu Thr Ile Thr Gly Val Gln Ala Glu Asp Glu 65 70 75 80

Ala	Asp	Tyr	Tyr	Cys 85	Gly	Thr	Trp	Asp	Ser 90	Ser	Arg	Val	Gly	Ile 95	Phe	
Gly	Gly	Gly	Thr 100	Lys	Leu	Thr	Val	Leu 105								
<210 <211 <212	.> : > :1	17 27 DNA	.	-												,
<213		Arti	ricia	a I												
<223		Syntl	netio	c Pr	imer											
<400 gggg		17 cca g	gcggd	ctcg	aa at	gtgt	c									27
<210 <211 <212	> : > :	18 31 DNA Artii	ficia	a l									·			
<220 <223	>	Syntl			imer											
<400 cccg		18 ccg a	acaad	eggtt	t gg	gaggg	gacct	: с								31
<210 <211 <212 <213	> : > :	19 30 DNA Artii	ficia	al												
<220 <223		Syntl	netio	e Pri	imer											
<400 gggt		19 gag (ccatt	ggad	ct ct	ccgt	cct	Ð								30
<210 <211 <212 <213	.> : > 1	20 33 DNA Arti	ficia	al					•							
<220 <223		Syntl	netio	e Pri	imer											
<400 cccg		20 agc (cctc	caaat	ct tt	cato	cctg	g ato	3							33
<210	> 2	21														

<211>	45	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	Synthetic Primer	
		•
<400>	21 '	
cttcqt	gcta gegtecaete caatatagat gtgtgeaage ttgge	45
.010	22	
<210>	22	
<211>	33	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	Synthetic Primer	
(223)	Synthetic Filmer	
<400>	22	
ctgagc	caca ccggtgttgg ctttgccctg tgg	33
<210>	23	
	37	
<211>		
<212>		
<213>	Artificial	
<220>		
<223>	Synthetic Primer	
<400>	23	
		~ ~
ccagca	ccca tggccgccgt gacgttggac gagtccg	37
<210>	24	
<211>	36	
<212>	DNA	
<213>	Artificial	
(213)	Artificial	
000		
<220>		
<223>	Synthetic Primer	
<400>	24	
catcaa	gcta gcggaggaga cgatgacttc ggtccc	36
- 3	3	
-010	25	
<210>	25	
	37	
<212>		
<213>	Artificial	
<220>		
<223>	Cunthetia Drimor	
<223>	Synthetic Primer	•
<400>	25	
cacqcad	gage tegegetgae teageegtge etegagt	37

```
<210> 26
<211>
      34
<212> DNA
<213> Artificial
<220>
<223> Synthetic Primer
<400> 26
agccacagat cttaggacgg tcagggttgt cccg
                                                                     34
<210>
      27
<211>
      70
<212> DNA
<213> Artificial
<220>
<223> Synthetic Primer
<400> 27
ctagccacgc gtccaccatg gagaaagaca cactcctgct atgggtccta cttctctggg
ttccaggttc
                                                                     70
<210> 28
<211> 70
<212> DNA
<213> Artificial
<220>
<223> Synthetic Primer
<400> 28
ccagggccac tgacactgaa ggcggctgag tcagctcaga gctacctgtg gaacctggaa
                                                                     60
                                                                     70
cccagagaag
<210> 29
<211> 71
<212> DNA
<213> Artificial
<220>
<223> Synthetic Primer
cttcagtgtc agtggccctg ggacagaccg tcaggatcac ctgctccgga ggttacagcg
                                                                     60
gctattatgg c
                                                                     71
```

<210> 30

<211>	71	
<212>	DNA	
<213>	Artificial	
(213)	ALCITICIAL	
<220>		
<223>	Synthetic Primer	
<400>	30	
gttgtca	ataa atcacagtga caggageetg gecaggttte tgetggtace agecataata	60
5 5		
		71
gccgctg	gtaa c	71
<210>	31	
<211>	73	
<212>	DNA	
<213>	Artificial	
000		
<220>		
<223>	Synthetic Primer	
	-	
-400-	2.1	
<400>	31	
cctgtca	actg tgatttatga caacaccagg agaccctcgg acatcccttc acgattctcc	60
aattaa	aaat ccg	73
ggcccc	adde eeg	, ,
<210>	32	
<211>		
	69	
<212>	DNA	
<213>	Artificial	
000		
<220>		
<223>	Synthetic Primer	
<400>	32	
cctcgtc	cctc ggcttggact ccagtgatgg ttaatgtggc tgtggagccg gatttggaac	60
cggagaa	atc	69
0994940		•
	·	
<210>	33	
<211>	73	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	Synthetic Primer	
	·	
<400>	33	
gagtcca	aagc cgaggacgag gctgactatt actgtgggac ctgggacagc agccgtgttg	60
gtatatt	tgg agg	73
		-
<210>	34	
<211>	73	

```
<212> DNA
<213> Artificial
<220>
<223> Synthetic Primer
<400> 34
gactcgtcta gagggagaag agactcacct aggacggtca gctttgtccc acctccaaat
                                                                      60
                                                                      73
ataccaacac ggc
<210> 35
<211> 20
<212> DNA
<213> Artificial
<220>
<223> Synthetic Primer
<400> 35
ctagccacgc gtccaccatg
                                                                      20
<210> 36
<211> 20
 <212> DNA
 <213> Artificial
<220>
<223> Synthetic Primer
<400> 36
                                                                      20
gactcgtcta gagggagaag
<210> 37
 <211> 78
<212> DNA
<213> Artificial
<220>
 <223> Synthetic Primer
<400> 37
ctagccacgc gtccaccatg ggatggagct ggatctttct cttcctcctg tcaggaactg
                                                                      60
                                                                      78
ctggcgtcca ctctcagg
<210> 38
 <211> 77
 <212> DNA
 <213> Artificial
<220>
<223> Synthetic Primer
```

gagcct	gagg cttcctccag gctgcacgag	tccacctccg	gactccacca	actgcacctg	60
agagtg	gacg ccagcag				77
<210>	39				
<211>	79				
<212> <213>	DNA Artificial				
<220>					
<223>	Synthetic Primer				
<400>	39				
	ggaa gcctcaggct cagctgcgcc	gcctccgggt	tcaccttcag	tagttacagc	60
atgctc	tggg tgcgacagg				79
<210>	40				
<211>	78				
<212> <213>	DNA Artificial				
(213)	Altititat			•	
<220> <223>	Synthetic Primer				
(223)	Synthetic Filmer				
<400>	40				
cttctg	gtcc taccagtgtt ggtaatttca	gcgacgtatt	ccagtccctt	gccaggcgcc	60
tgtcgca	accc agagcatg				78
<210>	41				
<211>	79				
<212>	DNA				
<213>	Artificial				
<220>					
<223>	Synthetic Primer				
<400>	41				
ccaaca	ctgg taggaccaga agatacggag	ctgcggtgaa	gggccgtgcc	accatctcta	60
gggacaa	acgc caagaacac				79
<210>	42			•	
<211>	79			,	
<212>					
<213>	Artificial				
<220>					
~222×	Synthetic Drimer				

	42 gtag tacacggcg	g tgtcctcagc	cctgaggctg	ttcatctgca	ggtacactgt	60
gttcttg	ggcg ttgtcccta					79
<210> <211>	43 77					
<212> <213>	DNA Artificial					
<220> <223>	Synthetic Pri	mer				
	Synchecic File	me I				
<400> ccgccgt	43 gta ctactgcgc	c agaagtagtg	tttattcttg	ttcttatggt	tggtgtgctg	60
gtaacat	caa cgcatgg					77
<210>	44					
<211>	79					
	DNA Artificial					
<213>	Artificial			-		
<220>						
<223>	Synthetic Pri	mer				
<400>	44					
gactcgt	cta gaggttgtg	a ggactcaccg	gaggagacgg	tgaccagggt	tccctggccc	60
catgcgt	tga tgttaccag					79
210	4.5					
<210> <211>	45 20					
<212>	DNA					
	Artificial	•				
<220>			,			
	Synthetic Pri	mer				
<400>	45					
	cgc gtccaccat	g				20
<210>	46					
<211>	21					
<212>						
<213>	Artificial					
<220>						
<223>	Synthetic Pri	mer				
<400>	46					
gactcgt	cta gaggttgtg	aα				21

<211> 108 <212> PRT <213> Chicken <400> 47 Ala Leu Thr Gln Pro Ala Ser Val Ser Ala Asn Pro Gly Glu Thr Val 10 Lys Ile Thr Cys Pro Gly Gly Gly Ile Tyr Ala Gly Arg Tyr Tyr Gly 20 25 Tyr Gly Trp Phe Gln Gln Lys Ser Pro Gly Ser Ala Pro Val Thr Val 40 35 Ile Tyr Ser Asn Asp Lys Arg Pro Ser Asp Ile Pro Ser Arg Phe Ser 50 55 Gly Ser Ala Ser Gly Ser Thr Ala Thr Leu Thr Ile Thr Gly Val Gln 70 Ala Asp Asp Glu Ala Val Tyr Phe Cys Gly Ser His Asp Ser Asn Val 90 Gly Val Phe Gly Ala Gly Thr Thr Leu Thr Val Leu 100 105 <210> 48 <211> 136 <212> PRT <213> Chicken <400> 48 Ala Val Thr Leu Asp Glu Ser Gly Gly Leu Gln Thr Pro Gly Gly Gly Leu Ser Leu Val Cys Lys Ala Ser Gly Phe Asp Phe Ser Asn Tyr 20 25 Gln Leu Gln Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 Gly Gly Ile Gly Ser Ser Gly Ser Ser Thr Tyr Tyr Gly Ala Ala Val

<210> 47

Lys Gly Arg Ala Thr Ile Ser Arg Asp Asn Gly Gln Ser Thr Val Arg Leu Gln Leu Asn Asn Leu Arg Ala Glu Asp Thr Gly Thr Tyr Tyr Cys 90 Thr Arg Gly Val Ser Pro Tyr Ser Cys Trp Tyr Ala Gly Arg Thr Ser 100 105 Tyr Thr Cys His Ala Tyr Thr Ala Gly Ser Ile Asp Ala Trp Gly His 120 Gly Thr Glu Val Ile Val Ser Ser 130 135 <210> 49 <211> 109 <212> PRT <213> Chicken <400> 49 Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln 10 Thr Val Arg Ile Thr Cys Pro Gly Gly Gly Ile Tyr Ala Gly Arg Tyr 20 25 Tyr Gly Tyr Gly Trp Phe Gln Gln Lys Pro Gly Gln Ala Pro Val Thr 35 40 Val Ile Tyr Ser Asn Asp Lys Arg Pro Ser Asp Ile Pro Ser Arg Phe 50 Ser Gly Ser Ala Ser Gly Ser Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gly Ser His Asp Ser Asn 85 90 Val Gly Val Phe Gly Gly Gly Thr Lys Leu Thr Val Leu

100

<210> 50 <211> 136 <212> PRT Chicken <213> <400> 50 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly 10 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asp Phe Ser Asn Tyr Gln Leu Gln Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Gly Gly Ile Gly Ser Ser Gly Ser Ser Thr Tyr Tyr Gly Ala Ala Val 55 Lys Gly Arg Ala Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Val Tyr 70 75 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys 90 Thr Arg Gly Val Ser Pro Tyr Ser Cys Trp Tyr Ala Gly Arg Thr Ser 100 105 Tyr Thr Cys His Ala Tyr Thr Ala Gly Ser Ile Asp Ala Trp Gly Gln 115 120 125 Gly Thr Leu Val Thr Val Ser Ser <210> 51 <211> 73 <212> DNA <213> Artificial <220> <223> Synthetic Primer <400> 51 acgcgtccac catggagaaa gacacactcc tgctgtgggt cctacttctc tgggttccag 60 gttccacagg ttc 73

<210>	52	
<211>	75	
<212>	DNA	
<213>	Artificial	
<220>		
	Combbatic Primary	
<223>	Synthetic Primer	
<400>	52	
cctgact	gtc tgtcccaagg ccacagacac agcagggtcc tgagtcagct cagaagaacc	60
tataaaa	acct ggaac	75
-3-33	33	
010	53	
<210>	53	
<211>	73	
<212>	DNA	
<213>	Artificial	
<220>		
	Complete Deimon	
<223>	Synthetic Primer	
<400>	53	
ccttggg	gaca gacagtcagg atcacatgcc ccggaggtgg catctatgct ggacgctact	60
atggtta	atgg ctg	73
	555	
<210>	54	
<211>	70	
<212>	DNA	
<213>	Artificial	
<220>		
	Complete Deliver	
<223>	Synthetic Primer	
<400>	54	
cgttgct	cata gatgacagtt acaggggcct gtcctggctt ctgctggaac cagccataac	60
catagta	eaca .	70
cacago	, ,	, 0
<210>	55	
<211>	70	
<212>	DNA	
<213>	Artificial .	
	-	
.220.		
<220>		
<223>	Synthetic Primer	
<400>	55	
ctqtaac		60
	,	. •
gctccg	rato	70
gereege		, 0
<210>	56	

```
<211> 69
 <212> DNA
 <213> Artificial
 <220>
 <223> Synthetic Primer
 <400> 56
 catcttccgc ctgagcccca gtgatggtca aggaagctgt ggagcctgat gcggagccag
                                                                      69
 agaatcgtg
 <210> 57
 <211> 66
 <212> DNA
 <213> Artificial
 <220>
 <223> Synthetic Primer
 <400> 57
 ggctcaggcg gaagatgagg ctgactatta ctgtgggagc cacgacagca atgttggtgt
                                                                      60
 atttgg
                                                                      66
 <210> 58
 <211> 71
 <212> DNA
 <213> Artificial
 <220>
 <223> Synthetic Primer
 <400> 58
tctagaggga gaagagactc acctaggacg gtcagctttg tcccaccgcc aaatacacca
                                                                      60
                                                                      71
 acattgctgt c
 <210> 59
 <211> 27
 <212> DNA
 <213> Artificial
 <220>
 <223> Synthetic Primer
 <400> 59
                                                                      27
 ctacgaacgc gtccaccatg gagaaag
 <210> 60
 <211> 29
 <212> DNA
 <213> Artificial
```

```
<220>
<223> Synthetic Primer
<400> 60
                                                                       29
gacttctcta gagggagaag agactcacc
<210> 61
<211>
<212> DNA
<213> Artificial
<220>
<223> Synthetic Primer
<400> 61
acgcgtccac catgggatgg agctggatct ttctcttcct cctgtcagga actgctggcg
                                                                      60
tgcactctga ggtgcagctg
                                                                       80
<210>
      62
<211>
      80
<212> DNA
<213> Artificial
<220>
     Synthetic Primer
<223>
<400> 62
ggctgcacag gagagtctca gggacccccc aggctggacc aagcctcccc cagactccac
                                                                      60
cagctgcacc tcagagtgca
                                                                      80
<210>
      63
<211> 80
<212> DNA
<213> Artificial
<220>
<223> Synthetic Primer
<400> 63
tgagactctc ctgtgcagcc tctggattcg actttagtaa ctatcagttg cagtgggtcc
gccaggctcc agggaagggg
                                                                      80
<210>
      64
<211>
      80
<212>
      DNA
<213> Artificial
<220>
<223> Synthetic Primer
```

	aget cegtagtatg tgetactgee actgetgeea ataceaceea cecaeteeag	60
cccctt	ccct ggagcctggc	80
<210><211><212><212><213>	65 80 DNA Artificial	
<220> <223>	Synthetic Primer	
<400> catacta	65 acgg agctgcggtt aagggccgag ccaccatctc cagagacaac gccaagaact	60
cagtgta	atct gcaaatgaac	80
<210><211><211><212><213>	66 80 DNA Artificial	
<220> <223>	Synthetic Primer	
<400> ctgtaag	66 ggac taacacctet ggtacagtaa tacacageeg tgteetegge teteaggetg	60
ttcatt	tgca gatacactga	80
<210><211><211><212><213>	67 80 DNA Artificial	
<220> <223>	Synthetic Primer	
<400> agaggt	67 gtta gtccttacag ctgttggtat gccggccgta ctagttatac ttgtcatgca	60
tatacto	gctg gtagcatcga	80
<210><211><211><212><213>	68 80 DNA Artificial	
<220> <223>	Synthetic Primer	

<400> tctagaa	68 agta	cagcagactc	acctgaggag	acggtgacca	gggttccctg	gccccatgcg	60
tcgatgo	ctac	cagcagtata					80
<210><211><211><212><213>	69 26 DNA Art:	ificial					
<220> <223>	Synt	thetic Prime	er				
<400> ctacgaa	69 acgc	gtccaccatg	ggatgg				26
<210><211><211><212><213>	70 28 DNA Art	ificial	-				
<220> <223>	Synt	chetic Prime	er				
<400> gacttct	70 ccta	gaagtacagc	agactcac				28
<210><211><211><212><213>	71 421 DNA Chic	cken					
<400> acgcgto	71 ccac	catggagaaa	gacacactcc	tgctgtgggt	cctacttctc	tgggttccag	60
gttccad	cagg	ttcttctgag	ctgactcagg	accctgctgt	gtctgtggcc	ttgggacaga	120
cagtcag	ggat	cacatgcccc	ggaggtggca	tctatgctgg	acgctactat	ggttatggct	180
ggttcca	agca	gaagccagga	caggcccctg	taactgtcat	ctatagcaac	gacaagagac	240
cctcgga	acat	cccttcacga	ttctctggct	ccgcatcagg	ctccacagct	tccttgacca	300
tcactg	gggc	tcaggcggaa	gatgaggctg	actattactg	tgggagccac	gacagcaatg	360
ttggtgt	att	tggcggtggg	acaaagctga	ccgtcctagg	tgagtctctt	ctccctctag	420
a							421
<210><211><212><212><213>	72 129 PRT Chic	cken			-		

<40	0> ′	72													
Met 1	Glu	Lys	Asp	Thr 5	Leu	Leu	Leu	Trp	Val 10	Leu	Leu	Leu	Trp	Val 15	Pro
Gly	Ser	Thr	Gly 20	Ser	Ser	Glu	Leu	Thr 25	Gln	Asp	Pro	Ala	Val 30	Ser	Val
Ala	Leu	Gly 35	Gln	Thr	Val	Arg	Ile 40	Thr	Cys	Pro	Gly	Gly 45	Gly	Ile	Tyr
Ala	Gly 50	Arg	Tyr	Tyr	Gly	Tyr 55	Gly	Trp	Phe	Gln	Gln 60	Lys	Pro	Gly	Gln
Ala 65	Pro	Val	Thr	Val	Ile 70	Tyr	Ser	Asn	Asp	Lys 75	Arg	Pro	Ser	Asp	Ile 80
Pro	Ser	Arg	Phe	Ser 85	Gly	Ser	Ala	Ser	Gly 90	Ser	Thr	Ala	Ser	Leu 95	Thr
Ile	Thr	Gly	Ala 100	Gln	Ala	Glu	`Asp	Glu 105	Ala	Asp	Tyr	Tyr	Cys 110	Gly	Ser
His	Asp	Ser 115	Asn	Val	Gly	Val	Phe 120	Gly	Gly	Gly	Thr	Lys 125	Leu	Thr	Val
Leu							÷								

<210> 73 <211> 499 <212> DNA <213> Chicken

<400> .73

acgcgtccac catgggatgg agctggatct ttctcttcct cctgtcagga actgctggcg 60
tgcactctga ggtgcagctg gtggagtctg ggggaggctt ggtccagcct ggggggtccc 120
tgagactctc ctgtgcagcc tctggattcg actttagtaa ctatcagttg cagtgggtcc 180
gccaggctcc agggaagggg ctggagtgg tgggtggtat tggcagcagt ggcagtagca 240
catactacgg agctgcggtt aagggccgag ccaccatctc cagagacaac gccaagaact 300
cagtgtatct gcaaatgaac agcctgagag ccgaggacac ggctgtgtat tactgtacca 360

gaggtgttag tccttacagc tgttggtatg ccggccgtac tagttatact tgtcatgcat 420 atactgctgg tagcatcgac gcatggggcc agggaaccct ggtcaccgtc tcctcaggtg 480 agtctgctgt acttctaga 499 <210> 74 <211> 155 <212> PRT <213> Chicken <400> 74 Met Gly Trp Ser Trp Ile Phe Leu Phe Leu Leu Ser Gly Thr Ala Gly 5 10 Val His Ser Glu Val Gln Leu Val Glu Ser Gly Gly Leu Val Gln 20 25 Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asp Phe 35 40 Ser Asn Tyr Gln Leu Gln Trp Val Arg Gln Ala Pro Gly Lys Gly Leu 50 Glu Trp Val Gly Gly Ile Gly Ser Ser Gly Ser Ser Thr Tyr Tyr Gly 70 Ala Ala Val Lys Gly Arg Ala Thr Ile Ser Arg Asp Asn Ala Lys Asn 90 Ser Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val 100 105 Tyr Tyr Cys Thr Arg Gly Val Ser Pro Tyr Ser Cys Trp Tyr Ala Gly 115 120 125 Arg Thr Ser Tyr Thr Cys His Ala Tyr Thr Ala Gly Ser Ile Asp Ala 130 135 Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser 145 150 <210> 75

Page 23

<211> 406 <212> DNA

<213> Chicken

<400> 75
acgcgtctcg accaccatgg agaaagacac actcctgcta tgggtcctac ttctctgggt 60
tccaggttcc acaggtgcgc tgactcagcc ggcctcggtg tcagcaaacc caggagaaac 120
cgtcaagatc acctgctccg ggggtagcta ctatggctgg taccagcaga agtctcctgg 180
cagtgcccct gtcactgtga tttatgacaa cgacaagaga ccctcggaca tcccttcacg 240
attctccggt tccaaatccg gctccacggg cacattaacc atcactgggg tccaagccga 300
ggatgaggct gtctattct gtgggagtgc agacagcgcc tatgttggta tatttggggc 360
cgggacaacc ctgaccgtcc taagtaagta gaatccaaag tctaga 406

<210> 76

<211> 122

<212> PRT

<213> Chicken

<400> 76

Met Glu Lys Asp Thr Leu Leu Leu Trp Val Leu Leu Trp Val Pro

1 10 15

Gly Ser Thr Gly Ala Leu Thr Gln Pro Ala Ser Val Ser Ala Asn Pro 20 25 30

Gly Glu Thr Val Lys Ile Thr Cys Ser Gly Gly Ser Tyr Tyr Gly Trp 35 40 45

Tyr Gln Gln Lys Ser Pro Gly Ser Ala Pro Val Thr Val Ile Tyr Asp 50 55 60

Asn Asp Lys Arg Pro Ser Asp Ile Pro Ser Arg Phe Ser Gly Ser Lys 65 70 75 80

Ser Gly Ser Thr Gly Thr Leu Thr Ile Thr Gly Val Gln Ala Glu Asp 85 90 95

Glu Ala Val Tyr Phe Cys Gly Ser Ala Asp Ser Ala Tyr Val Gly Ile 100 105 110

Phe Gly Ala Gly Thr Thr Leu Thr Val Leu 115 120

acgcgtctcg	accaccatgg	gatggagctg	gatctttctc	ttcctcctgt	caggaactgc
tggcgtccac	tctgccgtga	cgttggacga	gtccgggggc	ggcctccaga	cgcccggagg
agcgctcagc	ctcgtctgca	gggcctccgg	gttctctatc	ggcagttaca	acatgcactg
ggtgcgacag	gcgcccggca	aggggctgga	gtgggtcgct	ggtattagcg	gtgctggtag
tcgcacagca	tggtacgggg	cggcggtgaa	gggccgtgcc	accatctcga	gggacaacgg
gcagagcaca	gtgaggctgc	agctgaacaa	cctcagggcc	gaggacaccg	gcacctacta
ctgcgccaaa	gactatggtg	gtagtggttc	cccatggtat	ggttggggtg	ctgctagttg
gatcgacgca	tggggccacg	ggaccgaagt	catcgtctcc	tccggtaaga	atggcgtcta
ga					
<210> 78 <211> 149 <212> PRT <213> Chic	cken				
<400> 78					·
Met Gly Trp	Ser Trp I 5	le Phe Leu	Phe Leu Leu 10	Ser Gly Thr	Ala Gly 15
Val His Sen	r Ala Val Ti 20	-	Glu Ser Gly 25	Gly Gly Leu 30	Gln Thr
Pro Gly Gly	y Ala Leu So	er Leu Val	Cys Arg Ala	Ser Gly Phe 45	Ser Ile
Gly Ser Tyn 50	r Asn Met H	is Trp Val . 55	Arg Gln Ala	Pro Gly Lys	Gly Leu
Glu Trp Val	l Ala Gly I	_	Ala Gly Ser 75	Arg Thr Ala	Trp Tyr 80
Gly Ala Ala	a Val Lys G	ly Arg Ala	Thr Ile Ser	Arg Asp Asn	Gly Gln 95

60

120

180

240

300

360

420

480

482

<210> 77

<211> <212>

<213>

482

DNA

Chicken

Ser Thr Val Arg Leu Gln Leu Asn Asn Leu Arg Ala Glu Asp Thr Gly

100 105 110

Thr Tyr Tyr Cys Ala Lys Asp Tyr Gly Gly Ser Gly Ser Pro Trp Tyr 115 120 125

Gly Trp Gly Ala Ala Ser Trp Ile Asp Ala Trp Gly His Gly Thr Glu 130 135 140

Val Ile Val Ser Ser 145

<210> 79

<211> 102

<212> PRT

<213> Chicken

<400> 79

Ala Leu Thr Gln Pro Ala Ser Val Ser Ala Asn Pro Gly Glu Thr Val

5 10 15

Lys Ile Thr Cys Ser Gly Gly Ser Tyr Tyr Gly Trp Tyr Gln Gln Lys
20 25 30

Ser Pro Gly Ser Ala Pro Val Thr Val Ile Tyr Asp Asn Asp Lys Arg 35 40 45

Pro Ser Asp Ile Pro Ser Arg Phe Ser Gly Ser Lys Ser Gly Ser Thr 50 55 60

Gly Thr Leu Thr Ile Thr Gly Val Gln Ala Glu Asp Glu Ala Val Tyr 65 70 75 80

Phe Cys Gly Ser Ala Asp Ser Ala Tyr Val Gly Ile Phe Gly Ala Gly 85 90 95

Thr Thr Leu Thr Val Leu 100

<210> 80

<211> 103

<212> PRT

<213> Homo sapiens

<400> 80

Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Ser Gly Gly Ser Tyr Tyr Gly Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Thr Val Ile Tyr Asp Asn Asp Lys Arg Pro Ser Asp Ile Pro Ser Arg Phe Ser Gly Ser Lys Ser Gly Ser 55 Thr Gly Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp 70 75 Tyr Tyr Cys Gly Ser Ala Asp Ser Ala Tyr Val Gly Ile Phe Gly Gly 90 Gly Thr Lys Leu Thr Val Leu 100 <210> 81 <211> 130 <212> PRT <213> Chicken <400> 81 Ala Val Thr Leu Asp Glu Ser Gly Gly Gly Leu Gln Thr Pro Gly Gly 5 15 Ala Leu Ser Leu Val Cys Arg Ala Ser Gly Phe Ser Ile Gly Ser Tyr Asn Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Gly Ile Ser Gly Ala Gly Ser Arg Thr Ala Trp Tyr Gly Ala Ala 50 55 Val Lys Gly Arg Ala Thr Ile Ser Arg Asp Asn Gly Gln Ser Thr Val 65 70 75 Arg Leu Gln Leu Asn Asn Leu Arg Ala Glu Asp Thr Gly Thr Tyr Tyr

Cys Ala Lys Asp Tyr Gly Gly Ser Gly Ser Pro Trp Tyr Gly Trp Gly 100 105 Ala Ala Ser Trp Ile Asp Ala Trp Gly His Gly Thr Glu Val Ile Val 120 Ser Ser 130 <210> 82 <211> 130 <212> PRT <213> Homo sapiens <400> 82 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly 10 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Ile Gly Ser Tyr 20 25 Asn Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val 35 40 Ala Gly Ile Ser Gly Ala Gly Ser Arg Thr Ala Trp Tyr Gly Ala Ala 50 55 Val Lys Gly Arg Ala Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Lys Asp Tyr Gly Gly Ser Gly Ser Pro Trp Tyr Gly Trp Gly 100 105 Ala Ala Ser Trp Ile Asp Ala Trp Gly Gln Gly Thr Leu Val Thr Val 115 120 125

Ser Ser 130

<210> 83 <211> 403 <212> DNA <213> Homo sapiens											
<400> 83 acgcgtccac catggagaaa gacacactcc tgctgtgggt cctacttctc tgggttccag											
gttccacagg ttcttctgag ctgactcagg accetgctgt gtctgtggcc ttgggacaga											
cagtcaggat cacatgctcc gggggtagct actatggctg gtaccagcag aagccaggac											
aggcccctgt aactgtcatc tatgacaacg acaagagacc ctcggacatc ccttcacgat											
tetetggete caaateagge teeacagget cettgaccat caetgggget caggeggaag											
atgaggctga ctattactgt gggagtgcag acagcgccta tgttggtata tttggcggtg											
ggacaaagct gaccgtccta ggtgagtctc ttctccctct aga											
<210> 84 <211> 123 <212> PRT <213> Homo sapiens											
<400> 84											
Met Glu Lys Asp Thr Leu Leu Leu Trp Val Leu Leu Trp Val Pro 1 5 10 15											
Gly Ser Thr Gly Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val 20 25 30											
Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Ser Gly Gly Ser Tyr Tyr 35 40 45											
Gly Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Thr Val Ile Tyr 50 55 60											
Asp Asn Asp Lys Arg Pro Ser Asp Ile Pro Ser Arg Phe Ser Gly Ser 65 70 75 80											
Lys Ser Gly Ser Thr Gly Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu 85 90 95											
Asp Glu Ala Asp Tyr Tyr Cys Gly Ser Ala Asp Ser Ala Tyr Val Gly 100 105 110											

Ile Phe Gly Gly Gly Thr Lys Leu Thr Val Leu

115 120

<210> 85 <211> 481 <212> DNA <213> Homo sapiens <400> 85 acgegtecae catgggatgg agetggatet ttetetteet cetgteagga actgetggeg tgcactctga ggtgcagctg ctggagtctg ggggaggctt ggtccagcct ggggggtccc tgagactete etgtgeagee tetggattet etateggeag ttacaacatg caetgggtee gccaggctcc agggaagggg ctggagtggg tggctggtat tagcggtgct ggtagtcgca cagcatggta cggggcggcg gtgaagggcc gagccaccat ctccagagac aacgccaaga acacagtgta tctgcaaatg aacagcctga gagccgagga cacggctgtg tattactgtg ccaaagacta tggtggtagt ggttccccat ggtatggttg gggtgctgct agttggatcg acgcatgggg ccagggaacc ctggtcaccg tctcctcagg tgagtctgct gtacttctag a <210> 86 <211> 149 <212> PRT <213> Homo sapiens <400> 86 Met Gly Trp Ser Trp Ile Phe Leu Phe Leu Ser Gly Thr Ala Gly 5 15 Val His Ser Glu Val Gln Leu Leu Glu Ser Gly Gly Leu Val Gln 20 Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Ser Ile 40 Gly Ser Tyr Asn Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu 50 55 Glu Trp Val Ala Gly Ile Ser Gly Ala Gly Ser Arg Thr Ala Trp Tyr 65 70 75

60

120

180

240

300

360

420

480

481

Gly Ala Ala Val Lys Gly Arg Ala Thr Ile Ser Arg Asp Asn Ala Lys 85 90 95

Asn Thr Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala 100 Val Tyr Tyr Cys Ala Lys Asp Tyr Gly Gly Ser Gly Ser Pro Trp Tyr 120 Gly Trp Gly Ala Ala Ser Trp Ile Asp Ala Trp Gly Gln Gly Thr Leu 135 Val Thr Val Ser Ser 145 <210> 87 <211> 6 <212> DNA <213> Artificial <220> <223> Restriction site <400> 87 6 acgcgt <210> 88 <211> <212> DNA <213> Artificial <220> <223> Restriction site <400> 88 tctaga 6 <210> 89 <211> 79 <212> PRT <213> Homo sapiens <400> 89 Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln 5 10 15 Thr Val Arg Ile Thr Cys Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro 25

Val Leu Val Ile Tyr Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Phe Gly Gly Gly Thr Lys Leu Thr Val Leu 70 <210> 90 <211> 87 <212> PRT <213> Homo sapiens <400> 90 Glu Val Gln Leu Val Glu Ser Gly Gly Leu Val Gln Pro Gly Gly 10 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Trp Val 25 Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln Met Asn Ser Leu 50 Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg Trp Gly Gln Gly 65 70 Thr Leu Val Thr Val Ser Ser <210> 91 <211> 412 <212> DNA <213> Chicken <400> 91 acgogtotog accaccatgg agaaagacac actootgota tgggtootac ttototgggt 60 tccaggttcc acaggtgcgc tgactcagcc ggcctcagtg tcagcaaacc tgggaggaac 120 cgtcaagatc acctgctccg ggggttacag cggctattat ggctggtacc agcagaaatc 180 acctggcagt gcccctgtca ctgtgatcta tgacaacacc aggagaccct cggacatccc 240

ttcad	cgat	tc t	ccg	gttc	ca aa	atcc	ggcto	c cac	cagco	caca	ttaa	accai	tca	ctggg	ggtcca	300
agccgacgac gaggctgtct atttctgtgg gacctgggac agcagccgtg ttggtatatt 360																
tgggg	gccg	gg a	acaa	ccct	ga co	cgtc	ctaaç	g taa	agtag	gaat	ccaa	aagto	cta	ga		412
<210: <211: <212: <213:	> 1 > F	92 124 PRT Chicl	cen													
<400	> 9	92														
Met (Glu	Lys	Asp	Thr 5	Leu	Leu	Leu	Trp	Val 10	Leu	Leu	Leu	Trp	Val 15	Pro	
Gly s	Ser	Thr	Gly 20	Ala	Leu	Thr	Gln	Pro 25	Ala	Ser	Val	Ser	Ala 30	Asn	Leu	
Gly(Gly	Thr 35	Val	Lys	Ile	Thr	Cys 40	Ser	Gly	Gly	Tyr	Ser 45	Gly	Tyr	Tyr	
Gly 1	Trp 50	Tyr	Gln	Gln	Lys	Ser 55	Pro	Gly	Ser	Ala	Pro 60	Val	Tḥr	Val	Ile	
Tyr <i>I</i> 65	Asp	Asn	Thr	Arg	Arg 70	Pro	Ser	Asp	Ile	Pro 75	Ser	Arg	Phe	Ser	Gly 80	
Ser I	Lys	Ser	Gly	Ser 85	Thr	Ala	Thr	Leu	Thr 90	Ile	Thr	Gly	Val	Gln 95	Ala	
Asp A	Asp	Glu	Ala 100	Val	Tyr	Phe	Cys	Gly 105	Thr	Trp	Asp	Ser	Ser 110	Arg	Val	
Gly 1	Ile	Phe 115	Gly	Ala	Gly	Thr	Thr 120	Leu	Thr	Val	Leu					
<210: <211: <212: <213:	> 4 > E	3 70 NA Chick	cen													
<400 acgcg		g cg a	accad	ccato	gg ga	ıtgga	agcto	g gat	ctt	ctc	ttco	ctcct	gt	cagga	actgc	60
tggcg	gtcc	ac t	ctgo	ccgt	ga co	ıttgg	gacga	gto	tggg	ggc	ggcc	ctcca	aga	cgccc	ggagg	120
agcgo	ctca	igc c	ctcgt	ctg	ca aç	gcct	ccgg	ggtt	caco	ttc	agta	igtta	aca -	gcato	gctctg	180

ggtgcgacag gcgcccggca aggggctgga atacgtcgct gaaattacca acactggtag 240 gaccagaaga tacggggcgg cggtgaaggg ccgtgccacc atctcgaggg acaacgggca 300 gagcacagtg aggctgcagc tgaacaacct cagggctgag gacaccggca cctactactg 360 cgccagaagt agtgtttatt cttgttctta tggttggtgt gctggtaaca tcaacgcatg 420 gggccacggg accgaagtca tcgtctcctc cggtaagaat ggcgtctaga 470

<210> 94

<211> 145

<212> PRT

<213> Chicken

<400> 94

Met Gly Trp Ser Trp Ile Phe Leu Phe Leu Leu Ser Gly Thr Ala Gly 10

Val His Ser Ala Val Thr Leu Asp Glu Ser Gly Gly Leu Gln Thr 20 25

Pro Gly Gly Ala Leu Ser Leu Val Cys Lys Ala Ser Gly Phe Thr Phe

Ser Ser Tyr Ser Met Leu Trp Val Arg Gln Ala Pro Gly Lys Gly Leu 50

Glu Tyr Val Ala Glu Ile Thr Asn Thr Gly Arg Thr Arg Arg Tyr Gly 65 80

Ala Ala Val Lys Gly Arg Ala Thr Ile Ser Arg Asp Asn Gly Gln Ser

Thr Val Arg Leu Gln Leu Asn Asn Leu Arg Ala Glu Asp Thr Gly Thr 105 100

Tyr Tyr Cys Ala Arg Ser Ser Val Tyr Ser Cys Ser Tyr Gly Trp Cys 115 120

Ala Gly Asn Ile Asn Ala Trp Gly His Gly Thr Glu Val Ile Val Ser 135 130

Ser

<210> 95 <211> 409 <212> DNA <213> Homo sapiens												
<400> 95 acgcgtccac catggagaaa gacacactcc tgctatgggt cctacttctc tgggttccag												
gttccacagg tagctctgag ctgactcagc cgccttcagt gtcagtggcc ctgggacaga												
ccgtcaggat cacctgctcc ggaggttaca gcggctatta tggctggtac cagcagaaac												
ctggccaggc tectgteact gtgatttatg acaacaccag gagaceeteg gacateeett												
cacgattete eggtteeaaa teeggeteea eageeacatt aaccateaet ggagteeaag												
ccgaggacga ggctgactat tactgtggga cctgggacag cagccgtgtt ggtatatttg												
gaggtgggac aaagctgacc gtcctaggtg agtctcttct ccctctaga												
<210> 96 <211> 125 <212> PRT <213> Homo sapiens												
Met Glu Lys Asp Thr Leu Leu Leu Trp Val Leu Leu Trp Val Pro 1 5 10 15												
Gly Ser Thr Gly Ser Ser Glu Leu Thr Gln Pro Pro Ser Val Ser Val 20 25 30												
Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Ser Gly Gly Tyr Ser Gly 35 40 45												
Tyr Tyr Gly Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Thr Val 50 55 60												
Ile Tyr Asp Asn Thr Arg Arg Pro Ser Asp Ile Pro Ser Arg Phe Ser 65 70 75 80												
Gly Ser Lys Ser Gly Ser Thr Ala Thr Leu Thr Ile Thr Gly Val Gln 85 90 95												
Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Gly Thr Trp Asp Ser Ser Arg												

Val Gly Ile Phe Gly Gly Gly Thr Lys Leu Thr Val Leu 115 120 125	
<210> 97 <211> 469 <212> DNA <213> Homo sapiens	
<400> 97 acgcgtccac catgggatgg agctggatct ttctcttcct cctgtcagga	actgctggcg 60
tccactctga ggtgcagttg gtggagtccg gaggtggact cgtgcagcct	ggaggaagcc 120
tcaggctcag ctgcgccgcc tccgggttca ccttcagtag ttacagcatg	ctctgggtgc 180
gacaggcgcc tggcaaggga ctggaatacg tcgctgaaat taccaacact	ggtaggacca 240
gaagatacgg agctgcggtg aagggccgtg ccaccatctc gagggacaac	gccaagaaca 300
cagtgtacct gcagatgaac agcctcaggg ctgaggacac cgccgtgtac	tactgcgcca 360
gaagtagtgt ttattcttgt tcttatggtt ggtgtgctgg taacatcaac	gcatggggcc 420
agggaaccet ggtcaccgte tecteeggtg agteeteaca acctetaga	469
<210> 98 <211> 145 <212> PRT <213> Homo sapiens <400> 98	
Met Gly Trp Ser Trp Ile Phe Leu Phe Leu Leu Ser Gly Thr 1 5 10	Ala Gly 15
Val His Ser Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu 20 25 30	Val Gln
Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe	Thr Phe
35 40 45 Ser Ser Tyr Ser Met Leu Trp Val Arg Gln Ala Pro Gly Lys	: Gly Leu

Thr Val Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val 100 Tyr Tyr Cys Ala Arg Ser Ser Val Tyr Ser Cys Ser Tyr Gly Trp Cys 120 Ala Gly Asn Ile Asn Ala Trp Gly Gln Gly Thr Leu Val Thr Val Ser 135 140 Ser 145 <210> 99 <211> 423 <212> DNA <213> Chicken <400> 99 acqcqtctcq accaccatqq aqaaaqacac actcctqcta tqqqtcctac ttctctqqqt 60 tccaggttcc acaggtgcgc tgactcagcc ggcctcagtg tcagcaaacc cgggagaaac 120 cgtcaagatc acctgccccg ggggtggcat ctatgctgga aggtactatg gttatggctg 180 gttccagcag aagtctcctg gcagtgcccc tgtcactgtg atctatagca acgacaagag 240 acceteggae atceetteae gatteteegg eteegcatee ggeteeaeag ecacattaae 300 catcactggg gtccaagccg acgacgaggc tgtctatttc tgtgggagcc acgacagcaa 360 tgttggtgta tttggggccg ggacaaccct gaccgtccta agtaagtaga atccaaatct 420 423 aga <210> 100 128 <211> <212> PRT <213> Chicken <400> 100 Met Glu Lys Asp Thr Leu Leu Leu Trp Val Leu Leu Leu Trp Val Pro 5 15 Gly Ser Thr Gly Ala Leu Thr Gln Pro Ala Ser Val Ser Ala Asn Pro 25

Gly Glu Thr Val Lys Ile Thr Cys Pro Gly Gly Gly Ile Tyr Ala Gly

35 40 45

Arg Ty		Gly	Tyr	Gly	Trp 55	Phe	Gln	Gln	Lys	Ser 60	Pro	Gly	Ser	Ala	
Pro Va 65	al Thi	. Val	Ile	Tyr 70	Ser	Asn	Asp	Lys	Arg 75	Pro	Ser	Asp	Ile	Pro 80	
Ser Ar	rg Phe	e Ser	Gly 85	Ser	Ala	Ser	Gly	Ser 90	Thr	Ala	Thr	Leu	Thr 95	Ile	
Thr Gl	ly Val	. Gln 100	Ala	Asp	Asp	Glu	Ala 105	Val	Tyr	Phe	Cys	Gly 110	Ser	His	
Asp _\ Se	er Asr 115		Gly	Val	Phe	Gly 120	Ala	Gly	Thr	Thr	Leu 125	Thr	Val	Leu	
<210><211><212><212><213>	101 500 DNA Chic	cken							•						
<400> acgcgt	101 tctcg	acca	ccato	gg ga	atgga	agcto	g gat	cttt	ctc	ttc	ctcct	gt (cagga	actgc	60
tggcgt	tccac	tctg	ccgtg	ga co	gttgg	gacga	a gto	cggg	gggc	ggco	ctcca	aga (cgccc	ggagg	120
agggct	tcagc	ctcg	tctg	ca aç	ggcct	ccgg	ggtt	cgad	cttc	agca	acta	atc a	agtto	gcagtg	180
ggtgcg	gccag	gcgc	ccgg	ca aç	gggg	ctgga	a gtg	gggto	ggt	ggta	attgo	gca 🤅	gcagt	ggcag	240
tagcac	catac	tacg	gggcg	gg cg	ggtga	aaggg	g ccg	gtgco	cacc	atct	cgag	ggg (acaac	gggca	300
gagcac	cagtg	agac	tgcag	gc to	gaaca	aacct	cag	ggct	gag	gaca	accgg	gca (cctac	tactg	360
caccag	gaggt	gttag	gtcct	t ac	cagct	gttg	g gta	tgco	ggc	cgta	actag	gtt a	atact	tgtca	420
tgcata	atact	gctg	gtago	ca to	gaco	gcato	999	gccac	ggg	acco	gaagt	ca 1	tcgtc	tcctc	480
cggtaa	agaat	ggcg	tctag	ga											500
<210><211><211><212><213>	102 155 PRT Chic	:ken													

Met Gly Trp Ser Trp Ile Phe Leu Phe Leu Leu Ser Gly Thr Ala Gly 1 5 10 15

Val His Ser Ala Val Thr Leu Asp Glu Ser Gly Gly Leu Gln Thr Pro Gly Gly Leu Ser Leu Val Cys Lys Ala Ser Gly Phe Asp Phe 40 Ser Asn Tyr Gln Leu Gln Trp Val Arg Gln Ala Pro Gly Lys Gly Leu 55 Glu Trp Val Gly Gly Ile Gly Ser Ser Gly Ser Ser Thr Tyr Tyr Gly Ala Ala Val Lys Gly Arg Ala Thr Ile Ser Arg Asp Asn Gly Gln Ser 85 90 Thr Val Arg Leu Gln Leu Asn Asn Leu Arg Ala Glu Asp Thr Gly Thr 100 105 Tyr Tyr Cys Thr Arg Gly Val Ser Pro Tyr Ser Cys Trp Tyr Ala Gly 115 Arg Thr Ser Tyr Thr Cys His Ala Tyr Thr Ala Gly Ser Ile Asp Ala 135 Trp Gly His Gly Thr Glu Val Ile Val Ser Ser 150 <210> 103 <211> 87 <212> PRT <213> Homo sapiens <400> 103 Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Trp Val 20 25 30

Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Arg Phe Thr Ile

40

Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu 50 60

Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Lys Trp Gly Gln Gly 65 70 75 80

Thr Leu Val Thr Val Ser Ser 85